

Date: Sat, 30 Jul 94 18:41:10 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #858
To: Info-Hams

Info-Hams Digest Sat, 30 Jul 94 Volume 94 : Issue 858

Today's Topics:

 Extended Transceive For FT-470 (2 msgs)
 GB2RS News 31st July 1994
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 Kenwood Repair
 Lightbulb's as antennas?
 repeaters in the microwave bands
 REQUEST: Help finding WWV receiver!
 Simulcasting repeaters on same freq
 Telford Amateur Radio Rally
 Thanks for the Help (was: WWV request
 WANTED-MAST MOUNT 4 HD73 ROTOR
 What to do with old OST's

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 30 Jul 1994 05:21:48 -0000
From: news.delphi.com!news.delphi.com!not-for-mail@uunet.uu.net
Subject: Extended Transceive For FT-470
To: info-hams@ucsd.edu

This message is everyone that knows the Rules & Regs better than myself:+}

Well forget my last post....scratch it....ignore it....because I stand
corrected. I now know that modification of ham gear for use out of band
is *NOT* "Type Accepted" equipment. Use of non FCC approved equipment is
a crime. Any information that I gathered from this post will be for

information purposes only!! Therefore I *WILL NOT* preform any of the modifications metioned in the previous posts. Although I realize that you can perform the mods, it (as far as I know) is within the boundries of the law, you can *NOT* actually transmitt with non type accepted equipment.

I do appreciate the help that you folks have given me.

->MM NOUXT

Date: 29 Jul 1994 16:58:46 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!korie!newsworthy.West.Sun.COM!abyss.West.Sun.COM!bigboy!myers@network.ucsd.edu
Subject: Extended Transceive For FT-470
To: info-hams@ucsd.edu

In article <31a4l2\$m7@news.delphi.com> markmcda@news.delphi.com
(MARKMCDANIEL@DELPHI.COM) writes:

>Hey Kevin,
> Thanks for your advice, tools and equipment should not be a
>problem. I simply wanted to perform the mod correctly. I have all the
>necessarily tools to accomplice the mod correctly. I will be using a nice
>PACE soldering station, nyleese wire (single strand made exclusivly for
>jumping), I will also be using a B&L stereo scope. I just want to make
>sure that I *DONT* need to move or remove any of the resistors.
>Also, I thought that removal of the battery would be necessary as well (I
>was seeking conformation about the battery).
> Also, I already know about the MARS mod (holding the arrow
>keys), However I need the out of band TXmitt (work related completely
>legal, I have a commercial class ticket).

Which service do you plan to use this radio in? I've seen lots of
folks using non-type accepted radios in Part 95/90 operation lately.
Though it rarely does harm, it isn't legal. :-)

--

* Dana H. Myers KK6JQ, DoD#: j | Views expressed here are

*

* (310) 348-6043 | mine and do not necessarily *

* Dana.Myers@West.Sun.Com | reflect those of my employer

*

* This Extra supports the abolition of the 13 and 20 WPM tests *

Date: Fri, 29 Jul 1994 17:51:29 +0000
From: pipex!demon!llondel.demon.co.uk!dave@uunet.uu.net
Subject: GB2RS News 31st July 1994
To: info-hams@ucsd.edu

Good morning. It's Sunday the 31st of July and here is the GB2RS news broadcast, prepared by the RSGB and intended for all radio amateurs and short-wave listeners.

First the headlines:-

August's RadCom, which contains the licence changes, has been posted and is also available to non-members.

The 1995 RSGB President has been elected, and

Solar activity is likely to pick up next week.

The August edition of Radio Communication has been posted to all RSGB members. It includes the complete text of the recent Gazette notice detailing the changes to the Full and Novice licences and some explanatory notes.

August's RadCom also includes details of how to nominate someone in this year's RSGB Council elections, and a list of the many Radio Amateurs' Examination and Morse courses starting this Autumn.

As a service to the amateur radio community, the RSGB is making the August edition of Radio Communication available free to non-members. Simply call RSGB Headquarters on 0707 659015 for your copy.

At its meeting on the 23rd of July, RSGB Council elected Clive Trotman, GW4YKL, as RSGB President for 1995. His term of office will start on the 1st of January 1995. In the meantime, he continues to represent Zone E, Wales.

Congratulations to Paul Dean, G0UFN, of the Houghton Le Spring Radio Club who won the Tom Luxmore, G3AWL, CW Memorial Trophy which is sponsored by the Peterlee Radio Club. Certificates are also awarded to Glen Thompson, G0SBN, and Maurice Miller, G0RMO, both of the Tynemouth Club. The competition was held over a one week period on the 2 metre band and, although contacts were sparse on most evenings, some 35 stations were active during the week. Best DX was G0FVS in Norfolk, worked by G4RXR with 10 watts. The organising secretary Bill, G4RXR would like to thank all the stations that took part, especially the many new calls who were exercising their CW skills on the air for the first

time. The provisional date for the presentation is Wednesday the 7th of September. Anyone who is interested in attending should contact Arthur, G0FBW, for further details.

The RSGB Council Member for Zone B, the Midlands, is Dave Gourley, G0MJY. He has recently moved house and his new address is: 86 Upton Road, Broadwaters, Kidderminster, Hereford and Worcester, postcode DY10 2YB. His telephone number is 0562 753101.

The Banbury Qualifying 160 Metre Direction Finding event, using map 164 (Oxford), takes place on Sunday the 14th of August. Contestants should assemble at the Haytor Rock car park, NGR 760766, at 1pm for a 1.20pm start. Any competitors requiring tea should notify Graham Nichols on 0295 265492 no later than next Sunday, the 7th of August.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DY0.

Date: 30 Jul 1994 00:50:06 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Help with Jupiter signals
To: info-hams@ucsd.edu

In article <1994Jul29.081706.9147@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>Ah, I think what is happening here is very clear. The comet
>fragments are disrupting the D layer on Jupiter, and radio
>signals from a live concert are leaking out to be heard here
>on Earth. Elvis lives!!!

Yes, I'd say your hypothesis is reasonable. Note the timing of the signals -- just as the comet fragments E, P, and of course, the K were stri-king the planet.

Hmmmmmm...

Steve sbjohnston@aol.com

Date: 29 Jul 1994 21:44:21 GMT
From: ihnp4.ucsd.edu!news.cerf.net!gopher.sdsc.edu!nic-nac.CSU.net!
channel.ecst.csuchico.edu!nomad@network.ucsd.edu
Subject: Kenwood Repair
To: info-hams@ucsd.edu

I have a few questions regarding Kenwood radio repair. I need to send mine in (has a receive problem on 2m). I can't find all my paperwork on it and, because of that, I can't find (a) where to send it and (b) a phone number to call to find out or get info on where to send it.

Can anybody supply me with these things?

Next, I read the warranty card and it said something about returning it in the original box. I recently moved and the original box got lost (now there's a surprise). Anybody know if it would void the warrenty by returning it in another box?

I'd appreciate any help and information on this topic. I've got two weeks left on my year warrenty so I need to get this thing in pretty quick...

Please send any and ALL replies via E-mail as I rarely get a chance to read this newsgroup. Thanks!

--

Michael Larish	California Department of Forestry Comm Reserve
nomad@ecst.csuchico.edu	Butte County Sheriff's Communications Reserve 725
Amateur Callsign: KD6CTZ	Butte County Sheriff's Search & Rescue Officer 317
Padi Rescue Diver	Butte County Drowning Accident Rescue Team (DART)

Date: 30 Jul 1994 06:27:01 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Lightbulb's as antennas?
To: info-hams@ucsd.edu

In article <31a2ss\$ksf@agate.berkeley.edu>, troys@cory.EECS.Berkeley.EDU (Troy Shahoumian KC6SCZ) writes:

yes, lightbulbs radiate RF fairly well. I made serveral contacts as a Novice on a 100 Watt Light Bulb.....When you live in an apartment, you will load up anything.. including the Bed Springs...hi hi

Herb
WA5YK0

Date: 29 Jul 1994 21:14:44 GMT
From: murky.apple.com!guest.apple.com!apple.com!NewsWatcher!user@decwrl.dec.com
Subject: repeaters in the microwave bands

To: info-hams@ucsd.edu

We have a 2.4 gig repeater using an omnidirection antenna in the Santa Clara Valley. It is currently linked to a 1.2 gig repeater. In addition, a few people have 2.4 ham rigs made by Kenwood. (At least I think I remember Kenwood.) They are not available in the US, but Japanese companies will ship them to your door.

phil sohn
sohn@apple.com

Date: 29 Jul 1994 22:55:39 -0400
From: ankh.iaa.org!ralph.vnet.net!char.vnet.net!not-for-mail@uunet.uu.net
Subject: REQUEST: Help finding WWV receiver!
To: info-hams@ucsd.edu

Ahhhh...

To all the people emailing me about this, I wouldn't know what to do with it. I don't get into astronomy. BUT, my freind Aaron does in a big way. I included his email address in the Reply-To line in my original post. Please mail him. He just does not have the ability to post from his work account.

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\ /	-\---/-	\---		Saurian: saur@char.vnet.net
---+---	.---.	---	
--- ---	---	---		EXODUS 4:1-5 NUMBERS 21:4-9
	---	---		EXODUS 7:8-13 PSALMS 104:24-28
-----				-----
/ \	\	\---		-----

Date: 30 Jul 94 05:14:13 GMT
From: news.delphi.com!BIX.com!jdow@uunet.uu.net
Subject: Simulcasting repeaters on same freq
To: info-hams@ucsd.edu

cyamamot@marconi.jpl.nasa.gov (Clifford Yamamoto) writes:

>Greetings all!

>I was wondering if anyone has any experience with repeater simulcast.
>The Los Angeles County Sheriff has it on their system with over 30

>repeaters all on the same frequency, but all phase locked so that
>overlapping regions have nearly zero beat note (perhaps at most a
>slight fading effect once every 4 seconds).

>I've read in Mobile Radio Technology that these commercial sites are
>synchronized via WWVB or GPS.

>What I'd like to know is if this is plausible for ham radio use for
>say two sites? Is there a simple way to get reused Micors/Mitreks/etc.
>to be phased locked together? It doesn't seem easy. The receiver
>voting portion seems easier than getting both sites to xmit in phase.

>Is there equipment from Motorola that already does this? How much
>would something like that be? Could I get a DDS board that replaces
>the elements in the Micors/Mitreks that can be fed a 10MHz reference
>signal from a GPS/WWVB receiver?

>Any suggestions or hints would be appreciated.

>Thanks & 73's

>- Cliff

I'd have to play with that a good deal. This will prevent loud squeals from audible beat notes. And for stationary receivers it will prevent subaudible buzzes such as you can get at 1.2gig from picket-fencing. But, in the fringe area on the line equidistant from both (N?) transmitters you get absolutely vicious picket fencing as you drive along. You also get slowly moving nulls on that line equidistant between the stations such that at say 450MHz you could step to the left (no, we're not doing the hokey pokey in this news-group) a foot and bring up a very strong signal when you found yourself in a null. This effect would be serious in some regions with the signal levels within 1dB of each other. In VERY high signal level regions, on a line between the sites, it might be more like .1dB being significant. But

Stabilizing them is easy. Pick up a Cs standard for each site. It will stabilize everything in the building to within very small fractions of one Hertz at 900MHz REAL easy. (Actually Rb would be good enough and a great deal cheaper. A very good ovenized crystal oscillator might be good enough if someone trundled around and retuned them periodically using a Cs or Rb standard. Off hand I'd pick Cs myself. Then nobody'd have to go trundling around tweaking things over *VERY* long periods of time. Ah the miracle of frequency synthesizers.)

{^_^} Joanne Dow, Editor Amiga Exchange, BIX
jdow@bix.com

Date: Sat, 30 Jul 1994 08:00:27 +0000

From: pipex!demon!g6dqy.demon.co.uk!john@uunet.uu.net

Subject: Telford Amateur Radio Rally
To: info-hams@ucsd.edu

Hi

Not sure if my first attempt at this message got out, if so sorry about the wasted bandwidth.

The Telford Rally takes place on Sunday 4th of September 1994.
The venue is the Telford Exhibition Centre, Telford, Shropshire, England.
Doors open at 1030.
Ironbridge Gorge museum is only a short distance away - see where the industrial revolution started.

For more information contact:-
Peter +44 785 284388 or John +44 743 249943
john

--

e-mail john@g6dqy.demon.co.uk Nr Shrewsbury Shropshire
System used : Acorn A3000 4 MB RAM, 60 MB Hard Disk
AX.25 mail to g6dqy @ gb7pmb.#28.gbr.eu

Date: Sat, 30 Jul 1994 03:15:12 GMT
From: omen!caf@uunet.uu.net
Subject: Thanks for the Help (was: WWV request
To: info-hams@ucsd.edu

In article <31bko8\$t2u@char.vnet.net> AARON.HENDERSON.CMWAH01@NT.COM writes:
>Again it was frustrating to me that you have to spend so much for
>what used to cost about \$30.00 with the weather band included. But

My Realistic TIMEKUBE does not include a weather band, nor does it include 2.5 or 20 mHz, let alone CHU. Its discontinuance is no great loss.

--

Chuck Forsberg WA7KGX caf@omen.COM 503-621-3406
Author of YMODEM, ZMODEM, Professional-YAM, ZCOMM, GSZ and DSZ
Omen Technology Inc "The High Reliability Software"
TeleGodzilla BBS: 503-621-3746 FAX:-3735 CIS:70007,2304

Date: Fri, 29 Jul 1994 21:08:37 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!agate!howland.reston.ans.net!usc!
elroy.jp1.nasa.gov!lll-winken.llnl.gov!fnnews.fnal.gov!gw1!nntpa!not-for-

mail@network.ucsd.edu
Subject: WANTED-MAST MOUNT 4 HD73 ROTOR
To: info-hams@ucsd.edu

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In article <1994Jul28.040027.111118@cherokee.nsuok.edu>,
monte <peaster@cherokee.nsuok.edu> wrote:
> I am looking for a mast mount for an Alliance HD-73 rotor.
> Please send replies to Peaster@Cherokee.NSUok.edu
>
> Thanks & 73'S
> Mike Peaster
> KC5BNC
> Peaster@Cherokee.NSUok.edu
>
The mast clamp used for the Yaseu rotators GD800,1000 is a good
replacement for the HD73 mast clamp. Design is basically the
same and the hole spacing is quite close.
John K4BNC
```

Date: 29 Jul 94 19:33:02 -0400
From: ihnp4.ucsd.edu!news.acns.nwu.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!cis.ohio-state.edu!pacific.mps.ohio-state.edu!ohstpy.mps.ohio-state.edu!jrobbins@network.ucsd.edu
Subject: What to do with old OST's
To: info-hams@ucsd.edu

Just a quick request. Are old QSTs worth anything? I'm looking to get rid of a LARGE number of old ones (been a life member since the early 1970's) Should I try to sell them, give them to a library, or just toss them out? Thanks in advance.

```

/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*
<                                     The Ohio State University                                >
< James A. Robbins                      "... as full of life                               >
< Senior Design Engineer              as an old cheese on a hot day,                   >
< Chemistry Instrumentation          as loud as a curse in a cathedral,                 >
< Support Group                     as bright as an oil slick,                         >
< 120 W. 18th Ave.                  as colourful as a bruise,                       >
< Columbus, OH 43210, USA           and as full of activity, industry,                >
< Phone: (614) 292-8172 (GMC + 4)    bustle and sheer exuberant busyness        >
< WD8LWH                             as a dead dog on a termite mound."         >
<                                   from "MORT" by Terry Pratchett                    >
< E-Mail:                                                                      >
< INTERNET: jrobbins@mps.ohio-state.edu   (jrobbins@128.146.37.10)               >
/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*

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Date: (null)
From: (null)

Date: (null)
From: (null)

Date: (null)
From: (null)
Now the one rally we know of for today, Sunday the 31st of July:

The Rugby Amateur Transmitting Society Annual Rugby Radio Rally is being held at the BP Truckstop on the A5, some 2 miles North from junction 18 of the M1 motorway. The rally starts at 10am. The truckstop will be open for catering and other facilities throughout the day.

There's only one event for next Sunday the 7th of August:

The RSGB's Woburn Rally is held at Woburn Abbey in Bedfordshire. Access is easy from the M1 motorway: if travelling from the north or south, leave the motorway at Junction 13, not 12, and follow the signs through Husborne Crawley to Woburn Abbey. Avoid routes signposted to "The Wild Animal Kingdom" or "Game reserve" and look out for RSGB signs. The event starts at 10am, and features a large trade exhibition in a marquee, an RSGB bookstall and enquiries stand and a members mart. Further details from Norman Miller, G3MVV, on 0277 225563.

HF contest news next:

The Islands on the Air (IOTA) CW and SSB Contest finishes today, Sunday, at 1200 UTC after 24 hours on 3.5 to 28MHz. See March RadCom page 92 for full details.

The Romania DX Contest is scheduled to take place from 2000 next Saturday the 6th until 1600 on the 7th.

The RSGB Ropoco-2 Contest takes place next Sunday, the 7th of August, from 0700 to 0900 UTC between 3.52 to 3.57MHz, CW only. The contest exchange is rather complicated so participants are advised to consult the rules which can be found on page 93 of the March RadCom.

VHF contest news:

The RSGB 10GHz Summer Cumulative Contest takes place from 0900 to 2100 UTC today, Sunday the 31st. See April's RadCom page 82 for further details.

The Wrotham {pronounced 'Root-um'} 70 centimetre repeater, GB3NK, on channel RB4, has been switched off because of an antenna problem. The keeper, Bob Merish, G8JNZ regrets any inconvenience to users, but at the moment he is unable to say how long it will be off. For further details, contact the Kent Repeater Group whose address is correct in the Clubs section of the RSGB Call Book.

Special event stations active this week include:

GB2MRI which will be aired from Rathlin Island (locator IO65VH) to commemorate the work of Marconi. Operation will be from Wednesday the 3rd, until Sunday the 7th on HF and VHF.

The Cornish branch of the RAF Amateur Radio Society will use GX0RFC, on Wednesday the 3rd of August, during RAF St Mawgan "Airday" on 40 and 2 metres.

GB5GC celebrates the 50th Anniversary of St Dunstan's Camp at HMS Daedalus, Lee-on-the Solent, Hampshire. The camp, for men and women blinded on war service takes place from next Friday the 5th, until Friday the 12th of August. Operation will be on HF CW and SSB.

GB4TSR will be at the Torbay Steam Rally next weekend, the 6th and 7th, at Churston, Paignton. Visitors will be most welcome.

GB0LIS celebrates the 40th anniversary of the West Lancashire Scouts International Camp at Waddecarr. Operation will be from Sunday the 7th until Friday the 12th of August on 80, 40, 20 and 15 metres.

And now the solar factual data:

The period from the 18th to the 24th of July has seen only one small flare - a B1/SF, but general solar activity remains very quiet. The HF bands have been generally poor. Sun spot indices have remained low and meaned at 37. Solar flux indices have declined and averaged 77 units. The 90 day flux average on the 22nd was 80 units.

Geomagnetic activity has been mainly quiet with the period averaging an Ap of 9.1 units. The general decline in magnetic activity continues. The mean level since last February has declined from the 40s down to the present 10s. The state has been 'nil nothing to report'. The daily aa indices, as supplied by the British Geological Survey for the period

from the 12th to the 18th of July, averaged 25.5 nanoTeslas about K3.
The X-Ray flux levels have declined very considerably and averaged only A2.4 units.

I'll repeat the figures. Spots - 37; Flux - 77; Ap index-9.1; X-ray flux - A2.4.

Now the ionospheric data for Central France:

The F2 daytime critical frequencies at Poitiers, as reported by Meudon {pronounced 'Mer-don'} averaged 6.7MHz, though levels declined from 7.2MHz on the 20th down to 6.1MHz by the 24th. The darkness hour lows averaged 3.2MHz with little variation day to day. The highs are now occurring at 20.00 hours and the lows at 04.00 hours. Most days have seen a number of periods of blanketing E.

I'll repeat the figures. Highs - 6.7MHz; lows - 3.2MHz.

Now the ionospheric data for the north:

The F2 daytime critical frequencies at Ekaterinberg averaged 6.0MHz and the darkness hour lows 3.2MHz.

I'll repeat the figures: Highs - 6.0MHz; lows - 3.2MHz.

And lastly the solar forecast:

This week, the more active side of the sun will be coming into view; solar flux levels are expected to be about the 85s. Geomagnetic activity is expected to be mainly quiet - about an Ap of 10 units. Ionospheric MUFs during daylight are expected to be about 21MHz, and the darkness hours about 14MHz in the south; levels for the north will be down on these.

And that's the end of the solar information.

Finally in the main news, SSL has informed the Society that as of last Wednesday morning, the latest callsigns issued were in the G0 Victor Bravo and G7 Sierra Sierra series, and Novice calls in the 2 0 Alpha India and 2 1 Delta Echo series.

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GB2RS is prepared by the Radio Society of Great Britain and is broadcast in the 80m, 40m, 6m and 2m bands.

Tel +44 707 659015 Fax +44 707 645105

Date: Fri, 29 Jul 1994 19:17:12 GMT
From: netcomsv!netcom.com!greg@decwrl.dec.com
To: info-hams@ucsd.edu

References <940725102304_2@ccm.hf.intel.com>, <h0+RTqi.jramsey@delphi.com>,
<CtKs4o.5or@news.Hawaii.Edu>csu
Subject : Re: Ramsey SlyFox

In article <CtKs4o.5or@news.Hawaii.Edu> jeffrey@kahuna.tmc.edu (Jeffrey Herman) writes:

>In article <h0+RTqi.jramsey@delphi.com> jramsey@delphi.com writes:

>>Cecil, The manual clearly states to spread the coils for max power output. We
>>purposely have the coils wound with a 'tad' too much inductance - it's easier
>>to spread the coils a bit than to have to add more turns!

>

>But John, adding more turns would further increase the inductance:

>

>
$$L = (ND)^2 / (18D + 40S)$$

>

>where L = inductance in uH

> N = number of turns

> D = diameter

> S = length of coil all in inches

>

Gee, Cecil, it's a good thing that kit manufacturers can expect not to have to re-teach hams the 'basic physics' that they had to know to get their ham licenses, isn't it?

Greg

End of Info-Hams Digest V94 #858
